NORTHERN SAN DIEGO COUNTY

W6NWG

Scope

1936 · 1986

THE PALOMAR AMATEUR RADIO CLUB, INC.
POST OFFICE BOX 1603
VISTA, CALIFORNIA 92083-0530

VOL. XXI, NO., 9 SEPTEMBER, 1986

PRESIDENT: Stan Rohrer, W9FQN, Valley Center 749-0276
VICE PRESIDENT: Larry de Montegre, WQ6V, Vista 726-0353
SECRETARY: Phil Leonelli, WF6L, Oceanside 757-7008
TREASURER: Ron Wilhelmy, WI6B, Rancho Santa Fe 756-3133

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---FROM THE PRESIDENT---

August started the new fiscal year for the Club and there are many projects in which club members may participate if they are so interested:

ALARM SYSTEM - An alarm system is needed for the repeater site.

ANTENNAS - We are looking for new directional antennas for the repeater.

DIRECTION FINDING - Someone is always needed to point the way.

EDUCATIONAL - The Club needs people to teach classes and to construct educational demonstration boards.

GENERATOR - A generator shed is needed at the repeater site for our 3.5 KW unit.

NETS - Someone want to start a net? (Computer, antennas, gab, technical, travel, packet net on packet repeater, Spanish, etc.)

PROGRAMS - Help with the club-meeting program selection.

REPEATER SITE - Finish guying the tower, fire-proof and lightning-proof the site, plant trees and bushes, establish True North, etc.

NEW REPEATERS - 10M, 6M, and giga Hertz bands. Anyone interested in taking these on?

Please let us know if you are interested in helping with these, or any other club projects, by contacting one of the club officers.

de Stan, W9FQN

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MEMBERSHIP IN THE PALOMAR AMATEUR RADIO CLUB is $12 per year with no initiation fee, and includes a subscription to SCOPE. Family memberships are $12 for the first, and $9.00 for each subsequent member at the same address. Annual SCOPE subscriptions are $3.00. Membership matters, changes of address, subscription matters: P.O. Box 1603, Vista, CA 92083-0530.

ADS & MATERIAL FOR SCOPE to P.O.Box 73, Vista, CA 92083-0030. Deadline is normally Monday of the week two weeks before the club meeting.

CLUB MEETINGS are held on the first Wednesday of the month at 7:30 p.m. in the cafeteria at Lincoln Middle School between East Vista Way and Eucalyptus on Escondido in Vista. Parking is available in the main lot accessible from East Vista Way; and in the City Hall parking lot across Escondido from the School. Talk in on 146.730. Visitors are welcome.

OFFICIAL CLUB BADGES are available from John Tentor, W6OLQ. Unfortunately, he does require money and also feels it only fitting that you provide him with your name and call sign if you want them on your very own badge.

Sept 86

THREE REPEATERS, all W6NWG/R, are owned and operated by the Club. One has an input of 146.130 mHz and an output of 146.730 mHz. Input for another is 444.425 mHz and output is 449.425 mHz. The third is a packet radio digi peater on 145.050 mHz. All are on the Club's property on Mount Palomar at about 5,600'; and are open repeaters for club members and occasional and transient users. Repeater control operators are: KB6AI, W9FQN, K6HAV, WA6KZN, KB5MU, K6ROR, WQ6V.

THE NORTH COUNTY TRAFFIC NET is operated by the Club, and meets nightly on 146.730 mHz (-600 kHz) at 2000 local to handle formal written traffic. Visitors are welcome. Net control stations and liaison stations are needed. Apply to Joe, WB6HMY.

THE SAN DIEGO COUNTY PACKET RADIO VOICE NET meets on 146.730 mHz each Tuesday at 2100. This net is to provide information on Packet Radio for the beginner and the advanced packeteer. All are welcome. Paul, KB5MU, is net control station.

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SEPTEMBER CLUB MEETING

THE PROGRAM FOR THE EVENING IS A MYSTERY but it may have something to do with some video tapes by Jerry, N6LYX. And then again, it may not.

SHOW AND TELL will feature ??

COFFEE AND THE USUAL NO-CAL GOODIES by Vina and all of us kind enough to bring some of those tasty non-fattening little mouth-watering jewels! Vina says thanks to all those who have helped; and that she still needs folks to to help in future months.

SIGN THE ATTENDANCE LOG at all club events. Each attendance is worth one ticket for the drawing held at the Club's annual picnic. No signature, no tickee. No tickee, no washee!

AUGUST CLUB MEETING

At the August club meeting Lt. Mike Whalen, KB6MPO, and other deputies, all members of the Sheriff's Search and Rescue Detail, presented a very interesting talk on their unit and demonstrated their communications/command bus. Minutes and Treasurer's Report were read and approved. Committee reports were also heard. W9FQN and N6INN reported on the Club's commitments in support of the ARRL National Convention. W9FQN reported that the Club HAS MADE an offer to purchase the discounted note on the Club's repeater site property.

TASTIES and coffee were provided by Vina and others, including some delicious cream puffs donated to the Club at no cost by a store in Escondido via WQ6V. See Larry if you'd like to learn more about these truly low-calorie delights.

EXECUTIVE COMMITTEE MEETING

The Executive Committee, consisting of the Club's officers and committee chairmen, meets on the second Thursday of the month at the home of various of its members. Without fail, the meetings usually start at 7:30 of the p.m. Club members are welcome to attend and observe.

At the August meeting, which was held at the home of WI6B, the Committee voted to limit winners of picnic prizes to one per person. W9FQN was directed to pursue the purchase of the discounted note on the Club's Mt. Palomar property should the Club's offer to do so be accepted. More delicious low-cal cream puffs were sampled.

REPEATER

John, WB6IQS, went to the mountain to repair the broken 450 mHz repeater eceiver. As soon as he opened the cabinet door, the receiver sprang to life. John pulled the entire cabinet down and took it home with him to spend the necessary time locating this intermittent problem. He found the problem and he and Bob, KA6HZF, hauled the reluctant machine back to the mountain and reinstalled it on Sunday, the 17th only to find more problems. And so it sits, waiting for another assault on the mountain. Hope it's done in time for the convention.

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BOOTS OLSEN, W6HAW, SILENT KEY

Boots Olsen, W6HAW, a past president of the PARC, and a long-time club member became a silent key on Tuesday, August 19th. Boots had had a series of heart attacks, but was still active and enjoying life when he passed away. He was a top notch CW operator who was very active in the Club and in DXing, having gone on at least one DX-pedition. He was also one of the Club's Volunteer Examiners. He had retired from the insurance business, which he operated in Vista for many years. He was active in the community in many ways. Boots will be missed by all of us who knew him.

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EXPIRING FCC LICENSES

Licenses expiring In September: KE6HI, KA6QFF, N6FGE. In October: WB6PKK, WB6RSG. In November: W6OKG. In December: W6FAY, W4NYU, W6PNT, WA6MOS, N6NA.

To be reminded of your license expiration date, it must be in the Gi'nt Computer. 610 forms are available from the FCC and from the Secretary.

FROM THE ARRL LETTER

The FCC will no longer maintain the pools of questions for Amateur Radio examinations. Question pools will, in the near future, be maintained by Volunteer Examiner Coordinators. This is contrary to the ARRL's position which urged the FCC to continue to maintain questions pools to ensure a single, high quality pool of questions for each examination element. The effective date for this transition is to be announced.

Call signs issued through the 1st of August: WW6C, KI6IT, N6OBJ, KB6NST.

FORESAIL

(That's a jib, son - not a marconi, see the onion)

Complete packet station (less the radio). PK-64, C-64, 1541, color monitor, and Star 10C printer. Call Phil, K6ROR, 724-0098.

Drake TR4C, VFO, ps, and mike. Clean. Call Hal, W6DOL, 271-5939.

ICom IC-211 2M all-mode 10W xcvr. Yaesu FT-680R 6M all-mode 25W xcvr. Call Gerry, N6LYX, 486-3867.

Collins 75S-3 hf rx. Call Jack, W6QP, 724-3341. (7)

Turner 444 mike, like new. Johnson KW Matchbox w/swr meter, $130. Call Ralph, K6HAV, 727-5866. (5)

Drake TX-4B HF tx,RX-4B HF rx, pwr supply, all for $275. Call Bill, W6VDA, 466-4234. (5)

Tempo S-5 HT, $120; Heathkit Apache TX-1 HF tx, (great for CW), $50; Gonset 6N2 tx, $20; scanner, $40; Realistic DX-150 rx, $20; Hallicrafter S-38, $20; Heathkit SB-100 xcvr, $95; Kenwood TS-520-S, $250; Atlas 350XL, $200; test equipment (o'scopes, sig gens, tube testers, etc); Zenith color V, $90; and many other hard to find quality items, cheap, cheep. This is club gear or from estates. Talk to W9FQN at 749-0276.

Sept 86

WANTED

(Start houted men!)

ALDA 103 maintenance manual to borrow and copy. Bill, N6COU, 758-7163.

Instruction sheet on Morgain 75-40M dipole. Call Dennis, N6KI, 271-6079.

Some staunch club member to organize and oversee an amateur radio licensing course in the north county area. Call W9FQN.

NEW MEMBERS, REENLISTMENTS, UP-GRADES, NEW CALL SIGNS

UP-GRADES: Charles Littlefield, N6MOU, to General. Congratulations!

GNU CLUB MEMBERS: Joyce Simek, KA6VMK, Carlsbad; Billy Smith, Jr., KB6MCU, San Diego; Mark Helley, KB6NVN, Escondido; Tim Hoy, KI6GI, La Mesa; Bruce Nichelson, KA3GUP, San Diego; George Cable, N6NUA, Lakeside; Bob Gregory, KB6QH, San Diego. Welcome, we're glad to have you with us.

RE-NUDE CLUB MEMBERS: WA3AAJ, KH6CN, KB6DEM, W6DEY, KE7DR, KB6DSC, WW6E, N6ELP, N6ETH, W6FET, KD6FY, N6GJW, WB6GXR, KB6GYG, N6GZI, W6HAW, WB6HSZ, K6II, W6IUG, KB6JWM, N6JZB, W9KEX, N6NA, N6NOG, WB6OBH, KD6QJ, K6QXW, KS6S, WB6SML, K6TQ, WQ6V, KG6VX, WB6YVT, AD6Z, Vina de Montegre.

GNU/CHANGE OF CALL SIGN: Del Partridge, WV6Z from N6MSC; Bill Buckner, WW6E from KA0RGQ; Bill Schmidt, N6NSU from KB6MCP; Richard Earl, KB6NNV, first call; Mark Helley, KB6NVN, first call.

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FCC LICENSE EXAMINATIONS in north county are conducted by PARC examiners, under the auspices of SANDARC-VEC at the Joslyn Senior Center, (behind the City Hall) 111 Richmar Ave., San Marcos on the second Saturday of the month starting at 10:00 a.m.

Examinations are also given on the 1st Saturday at Normal Heights United Methodist Church, 4560 Mansfield St., San Diego; on the 3rd Saturday at St. Timothy's Lutheran Church, 2605 Morningside Dr., San Diego; and on the 4th Saturday at Bostonia Recreation Center, 1049 Bostonia St., El Cajon, and at the North County Blind Activity Center, 250 E. Grand Ave., Escondido.

Applicants for examination must send a S.A.S.E., a completed, signed NEW Form 610 and a copy of their license and code certificate, if any, to SANDARC-VEC, Post Office Box 5023, La Mesa, CA 92014 ten days prior to the testing date. New 610s may be obtained from the FCC. Applicants MUST BRING their ORIGINAL LICENSE AND CODE CERTIFICATE (if any) with them to the examination. NO "walk-in" examinees will be accepted.

ELECTRONICALLY ORIENTED FLEA MARKETS ARE: the ham-computer-electronics swap meet in the San Diego Stadium parking lot 0700-1100 on the first Saturday of the month. The TRW ARC flea mart at the corner of Compton and Aviation Blvd. in Manhattan Beach on the last Saturday of the month from 0800 to 1100. Talk-in on 145.320 mHz simplex. On the 2nd Saturday in Cucamonga in the General Dynamics parking lot east of Haven on Fourth Ave, starting at 0700. This one is "Ham Only".

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PICNIC - A GRAND TIME WAS HAD BY ALL

Our annual picnic was a fine one with good cooperation from the weather, lots of parking and a good location. The food was TASTY and WB6HMY left his rour-legged piranha at home. Prize winners were George, K6YGK; Russ, W6HZS; and Bill, K6GJD, all of whom won gift certifcates at WESTCOM; and Buck, WW6E, and Cindy, N6MOI, both of whom won Amateur Radio postage stamps. The Club had its Amateur Radio postage stamp pins on sale with many of us wearing them. It was a fine picnic with approximately 100 people in attendance. The Club thanks Merit Arnold, W6NLO, of WESTCOM for his prompt help in obtaining the gift certificates.

VOLUNTEER EXAMINERS PROGRAM

The August session was our "dry run" for the testing we will be doing at the ARRL National Convention in San Diego on the afternoon of September 6th. It was an excellent experience for us and particularly for our VE Group Leaders. Four of five examinees were successful, and PARC member Charles Littlefield, N6MOU, is congratulated for up-grading to General.

Our examiners were: KG6VX and WA6KZN administration; WI6B, W6DEY, W6TFB, and K6TQ CW exams; W6SAX, WQ6V, KA0RGQ, KD6WZ General-Technician exams; and AD6Z, KS6S, WO6P, WB6R Extra-Advanced exams. Our thanks to all of them.

The SANDARC-VEC organization has received a very good reputation nationwide for the quality of its effort and the results therefrom. We're proud of the job done by the PARC team and its members.

HAM RADIO SUPPORT NEEDED FOR TWO BIG EVENTS ON 13 & 14 SEPTEMBER

The Carlsbad Gran Prix Bicycle Race on Saturday, 13 September and the U.S. Triathlon Series in Solana Beach on Sunday the 14th both present an opportunity for Amateur Radio to show its stuff by providing solid, reliable communications.

The bicycle race needs hams with 2M HTs who will operate in shifts (0730-1200 & 1200-1700).

Bob, WA6QQQ, who is organizing the communications support for these two events, says that the Triathlon requires hams with 2M HTs and others with 220 mHz mobile rigs (a couple of these with 220 HTs also). More help is required for the Triathlon than for the Bicycle Race so lend a hand.

Hams interested in helping provide these public service communications should contact Dee, N6ELP, at 753-5647. Bob and Dee need your support. Year after year they take on the chore of organizing and staffing the communications organizations necessary to support these community events in North County. This is YOUR chance to do your share in these public service communications operations. Sign up now and get the assignment of your choice.

TWO METER RADIO NEEDED FOR ESCONDIDO R.A.C.E.S. AND A.R.E.S.

Albert, N6GNB, says that a 2M transceiver w/power supply is needed to replace the old one-channel rig in the Escondido Police Station. A good 2M rig here could be used for any club event and is an ideal location for a net control station in an emergency. If you have a rig or power supply you would like to donate, contact Al at 741-1840.

PROBLEMS WITH THE DICK SMITH 450 MHZ TRANSCEIVER KIT

Bob Hoover, KA6HZF, who has tried to assemble the Dick Smith Electronics 450 mHz transceiver kit K-6300, has found that if the manual is followed exactly the radio will not work. He has been in communication with the company, which has withdrawn the kit until the problems have been solved. If you have tried to build this kit, you might want to talk to Bob at 727-5414.

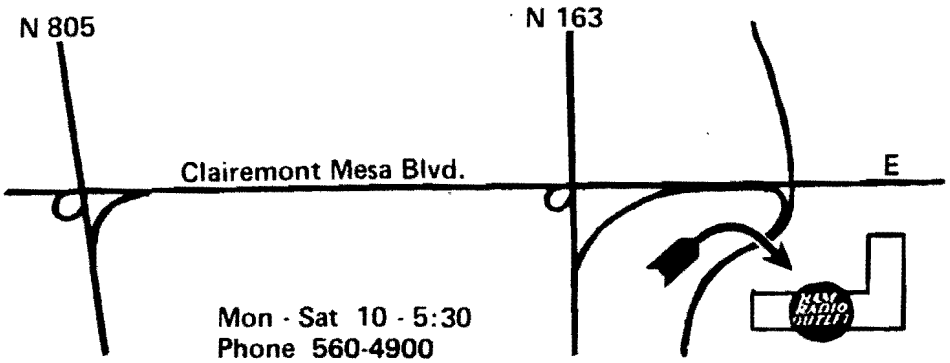
DOWN THE TOOBE

Thanks to Felix, N6IE, for his efforts to help clear up the estate of a recent silent key, W6ABD. Felix alone did the chore of dismantling the station (which was "hard-wired"), and getting the gear to the Club to be sold.

"That's all," she wrote.

Sept 86

HAM RADIO OUTLET



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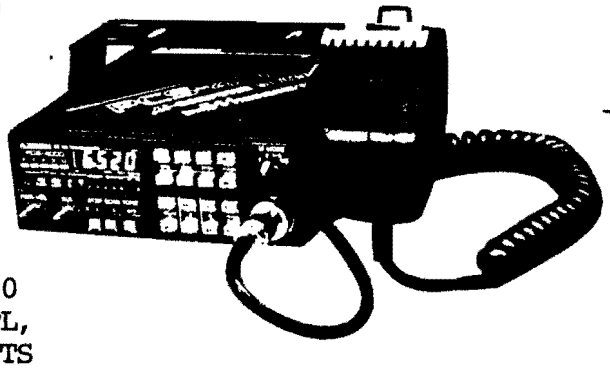

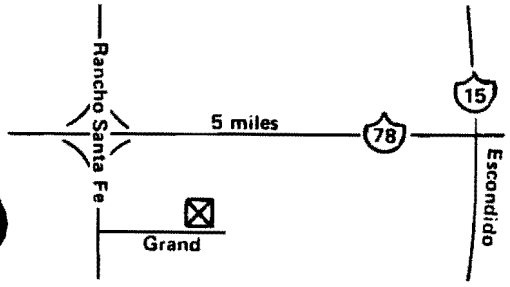

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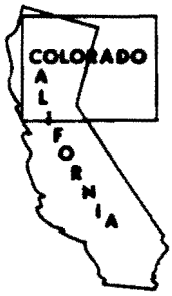

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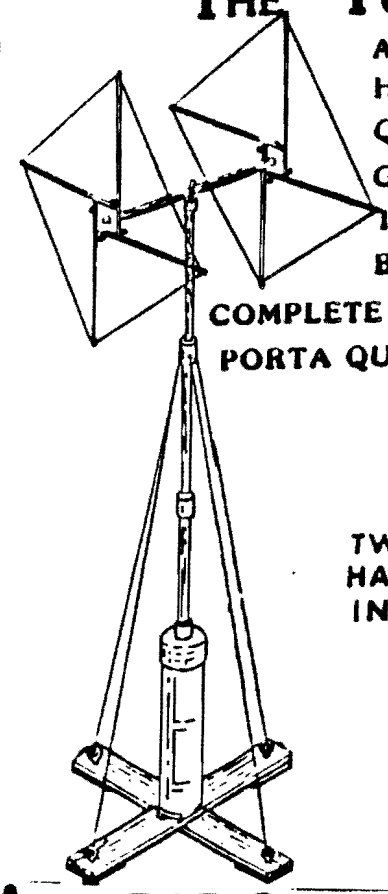

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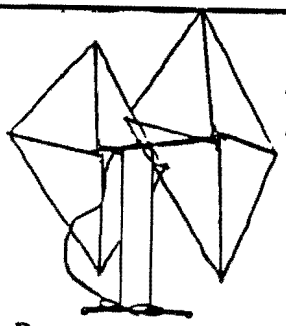

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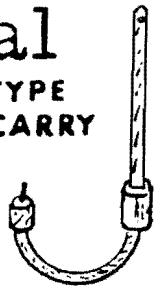

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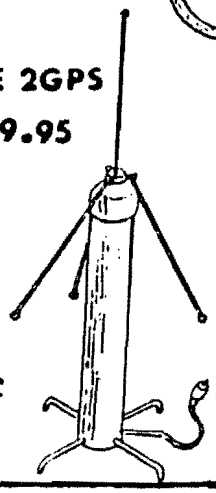

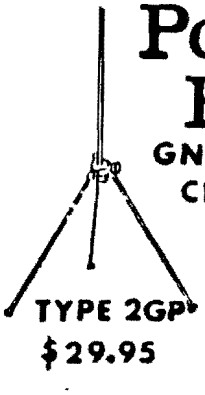

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	ANT #	ANTENNA TESTED	LENGTH	WEIGHT (OZ.)	dB GAIN RELATIVE TO STOCK IC-2A ANTENNA: PERFORMANCE ON IC-2A RANGE A	PERFORMANCE ON IC-2A RANGE B	PERFORMANCE ON TR-2600A RANGE A	PERFORMANCE ON TR-2600A RANGE B	INTERPOLATED MEDIAN OF ALL RUNS
RUBBER DUCKS	1	STUBBY DUCK, TUNED ANT. CO.	4"	1.1	-0.4	+0.4	0.0	-2.9	-0.2
	2	STUBBY DUCK, TUNED ANT. CO. (LOOKED LIKE AN OLDER MODEL)	4"	1.1	-0.4	-1.0	-2.1	-3.1	-1.6
	3	LARSEN SHORT CUT	10½"	1.8	-0.4	-0.8	-0.4	-1.0	-0.6
	4	LARSEN KUL DUCKIE	7½"	1.4	-2.9	-3.3	-1.7	-2.5	-2.7
	5	STOCK ANT. FOR KENWOOD TR-2600A	7"	0.8	-2.9	-2.9	-4.6	-3.7	-3.3
TELESCOPING ANTENNAS, FULLY EXTENDED	6E	MODUBLOX SP-146 SKY PROBE	43"	3.3	+13.3	+13.7	+10.8	+10.8	+12.1
	7E	AEA HOT ROD (RED SHRINK TUBING ON COIL) MODEL HR-1	40½"	1.8	+13.7	+13.3	+10.0	+10.0	+11.7
	8E	SUPER-STICK II (5/8-WAVE), TUNED ANT. CO.	55"	4.0	+7.9	+7.5	+7.9	+7.5	+7.7
	9E	SUPER STICK II WITH MODIFIED COIL: SHRINK TUBING REPLACED WITH #33 SCOTCH ELECTRICAL TAPE	54"	4.0	+6.4	+7.5	+7.9	+6.6	+7.1
TELESCOPING ANTENNAS, FULLY COLLAPSED	6C	MODUBLOX SP-146 SKY PROBE	8½"	3.3	-1.7	-2.9	-9.1	-7.5	-5.2
	7C	AEA HOT ROD (RED SHRINK TUBING ON COIL) HR-1	8½"	1.8	-5.0	-3.7	-1.7	-1.7	-2.7
	8C	SUPER-STICK II (5/8-WAVE), TUNED ANT. CO.	10"	4.0	-4.6	-4.6	-3.7	-3.3	-4.2
	9C	SUPER STICK II WITH MODIFIED COIL: SHRINK TUBING REPLACED WITH #33 SCOTCH ELECTRICAL TAPE	10"	4.0	-4.2	-5.0	-1.7	-4.2	-4.2
OUT-OF-BAND ANTENNAS	10E	SUPER STICK III (5/8 WAVE FOR 220 MHz), TUNED ANT. CO.	34½"	3.4	+4.6	+4.2	+6.2	+5.8	+5.2
	10C	SAME AS ABOVE, BUT COLLAPSED	9"	3.4	-7.9	-7.9	-4.6	-5.8	-6.9
	11	BEARCAT 101 SCANNER ANTENNA	6½"	1.5	-8.3	-9.5	-4.6	-7.9	-8.1
	12	ICOM 3AT (220 MHz) STOCK DUCK	7"	1.1	-12.5	-12.0	-9.5	-10.0	-11.0

Sept 86

BYTES 'N PIECES

By Paul Williamson, KB5MU

Amateur Radio's newest satellite, JAMSAT-OSCAR 12 (JO-12), formerly JAS- was launched successfully by AMSAT-Japan on August 12. JO-12 carries two transponders, a conventional analog transponder (Mode JA) and a digital packet radio transponder (Mode JD). Both Transponders use a 2-Meter uplink and 70 cm downlink. JO-12 is a low earth orbit satellite (like the older OSCARS), so it has to be tracked with directional antennas as it passes. The analog transponder has already been activated and tested; the digital transponder will be activated later this year. The uplink will use Manchester-coded FM, and the downlink will use BPSK (binary phase shift keying), both 1200 bps.

Several modem designs have been published that can be used with your 2-Meter FM transmitter and 70 cm SSB receiver to work mode JD on JO-12. The "JAS-1 Satellite Handbook" was translated from Japanese and contains a modem design (available from AMSAT for a $10 donation). The August 1986 issue of QEX (the ARRL Experimenter's Exchange) contains a more recent design for the demodulator portion of a modem. TAPR promises to release a modem in some form (a kit?).

The digital package aboard the satellite will function as a mailbox in the sky. A user in San Diego could send a message up to the satellite as it passes overhead, and then the addressee in Japan or Europe could access the satellite as it passes over his head, and pull the message out. By this means messages can be passed all over the world reliably.

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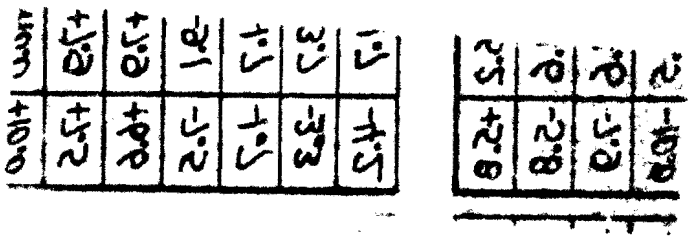

8-27-86

Special Mailing

PALOMAR ARC INC

1936 PARC 50 YEARS 1986

P.O.Box 1603, Vista, CA 92083-0530
Ph (619)749-0276

August 27, 1986

Dear Club Member :

During the past 3-4 months I have tried to keep the membership advised at club meetings and through the SCOPE as to the possibility of paying off the repeater site $18,000 note. I am pleased to inform you that we have been notified that the club can obtain the note for $9,000 which will retire the loan forever and the Club will own the property outright, free and clear of any encumbrances. This would also end our payments of $119 per month due for the next 17 years. Over the next 17 years we would be paying about $24,000 of which $16,000 would be principal and $8,000 interest. Buying the note now would save the club about $15,000.

We will need to move rapidly. The Executive Committee has directed me to send you this special letter and we would sincerely appreciate your immediate response. If $35 were contributed by each Club member, we would have the needed funds. Some members are financially capable of contributing considerably more than that sum while others cannot or may not contribute. Each member should let his or her conscience be his or her guide. Your contribution is not only a contribution to PARC but to Amateur Radio in San Diego County. Contributions will be acknowledged by a plaque to be placed in the repeater blockhouse on Palomar Mountain for posterity.

Please complete the following form and return it as soon as possible.

73's, Stan Rohrer, W9FQN, PARC President

Stan Rohrer

File 1 copy

_____(name) _____(callsign)

_____(name) _____(callsign)

(address)_____

amount enclosed_____

signature_____

signature_____

(OR)

I am unable to enclose a donation at this time but I will provide you with my donation soon.

_____(amount)

_____(approximate date)

_____(signature)

(OR)

I will not be forwarding a donation and would appreciate no further contact with respect to paying off the Note referred to above.

_____(signature)

Should the responses to this "passing of the hat" exceed the needed $9,000 sum, you should let your club know whether :

1. PARC may retain my prorata balance of the amount received in excess of $9,000 and it shall be credited to the Club's _____ fund (ie, equipment or general fund).

2. I would like to have my prorata share of any amount in excess of $9,000 returned to me by PARC.

_____(signature)

If you have questions, please call me(W9FQN 749-0276), Ralph(K6HAV 727-5866) or Ron(WI6B 756-3133).